

CHAPTER 9

PREPARATION OF TARGETS

LESSON PLAN 9

METHOD:

Conference, demonstration, and practical exercise

TIME ALLOTTED:

1.0 hour

COURSE PRESENTED TO:

- a. LAV-25 crews
- b. Instructors
- c. TAVSC personnel

TOOLS, EQUIPMENT, AND MATERIALS:

See Appendix A

PERSONNEL:

- a. Primary instructor
- b. Assistant instructor

INSTRUCTIONAL AIDS:

- a. Overhead projector
- b. Viewgraphs (Appendix C)

REFERENCES:

- a. TM 08594A-12&P
- b. TM 9-1265-376-10
- c. FM 17-12-7

APPENDICES:

Appendix A. Tools, Equipment, and Materials
Appendix B. Safety
Appendix C. Viewgraphs

9-1. INTRODUCTION.

(5 minutes)

Note. Show Slide 1.

- a. **Reason.** To achieve the desired results from PGS, targets must be properly prepared for gunnery training.

Note. Show Slide 2.

- b. **Training Objective.** Given a MILES LTID (if available), a retro reflector set, and a panel target, you will demonstrate the following tasks:
 - (1) Follow all safety regulations during target preparation.
 - (2) Prepare an infantry target.
 - (3) Prepare a BMP frontal target.
 - (4) Prepare a BMP flank target.
 - (5) Perform target emplacement.
- c. **Procedure.** During this block of instruction we will cover how to properly install both MILES LTIDs and retro reflector units on various panel targets used during panel gunnery training with PGS.

9-2. CONFERENCE/DEMONSTRATION/PRACTICAL EXERCISE.

(40 minutes)

Notes. Show Slide 3.

- a. **Safety During Target Preparation.** To prevent personnel injury and equipment damage, observe the following safety procedures when installing MILES LTIDs and retro reflector units on targets:
 - (1) Place target lifter ON/OFF switch in OFF position when working on or around panel targets.
 - (2) Disconnect target lifter battery to ensure that lifter will not be unintentionally raised.
 - (3) Ensure both LTID and retro reflector unit are securely mounted before lifting target.
 - (4) Ensure panel target is securely installed to target lifter.

Note. Show Slide 4.

- b. **Installation of Retro Reflector Unit.** The following installation procedure for the retro reflector unit is used for all targets.
 - (1) **Temporary installation.**
 - (a) Using aerosol adhesive, attach two 6 in. pieces of velcro to panel target.
 - (b) Place retro reflector unit on velcro. Verify that retro is securely attached.

9-2. CONFERENCE/DEMONSTRATION/PRACTICAL EXERCISE (Con't).

(2) Permanent installation.

- (a) Drill holes in panel target.
- (b) Use 1/4-20X2 in. bolts or similar with nuts to secure retro reflector unit.

Note. Show Slide 5.

c. **Preparation of Infantry Targets.** This target is intended for coax engagements.

- (1) Install retro reflector unit on center of mass of target.
- (2) Mount LTID in two vertical groups of three detectors on each side of retro reflector unit.

Note. Show Slide 6.

d. **Preparation of BMP Frontal Targets.** This target is intended for AP and HE engagements.

- (1) Install retro reflector unit on center of mass of target.
- (2) Mount LTID in two vertical groups of three detectors on each side of retro reflector unit.

Note. Show Slide 7.

e. **Preparation of BMP Flank Targets.** This target is intended for AP and HE engagements.

- (1) Install retro reflector unit on center of mass of target.
- (2) Mount LTID in vertical groups of three detectors on each side of retro reflector unit.

Note. Show Slide 8.

f. **Target Emplacement.** The following limitations must be considered during target emplacement. These limitations also apply for scaled gunnery training.

- (1) Targets equipped with retro reflector units must be laterally dispersed a minimum of 10 m between targets.
- (2) Targets equipped with retro reflector units must be separated a minimum of 30 m in depth between targets.

Notes.

- 1. Each assistant instructor is to conduct a safety briefing for his small group IAW Appendix B.
- 2. The assistant instructor discusses and clarifies the procedures as required and reinforces the training objective.

9-3. FINAL REVIEW.

(5 minutes)

a. Student Questions.

Note. Show Slide 9.

b. Summary of Main Teaching Points.

- (1) Safety regulations during target preparation
- (2) Preparation of infantry target
- (3) Preparation of BMP frontal target
- (4) Preparation of BMP flank target
- (5) Target emplacement

Note. Show Slide 10.

- #### c. Closing Statement.
- This block of instruction has taught you the proper procedures for installing MILES LTIDs and retro reflector units on various targets used in panel gunnery training with PGS. To achieve the desired training result with PGS, targets must be properly prepared.

APPENDIX A TO LESSON PLAN 9

PREPARATION OF TARGETS

TOOLS, EQUIPMENT, AND MATERIALS

Listed equipment is one per class.

1. Panel target, BMP frontal
2. Panel target, BMP flank
3. Panel target, infantry troop
4. MILES LTID set
5. PGS retro reflector set
6. Target lifter
7. Velcro (NSN 6515-01-233-4392)
8. Adhesive (NSN 8040-00-262-9028)

APPENDIX B TO LESSON PLAN 9

PREPARATION OF TARGETS

SAFETY

Listed general safety regulations are to be strictly enforced during all target preparation.

1. Do not stand on top of target when it is in the down position.
2. Ensure target control device is in OFF position before working on target lifter.
3. Ensure target lifter battery is disconnected before working on target.
4. Ensure both LTID and retro reflector units are securely mounted before lifting target.

**APPENDIX C
TO LESSON PLAN 9**

PREPARATION OF TARGETS

VIEWGRAPHS
